

Express Mailing Label # EU013001883US

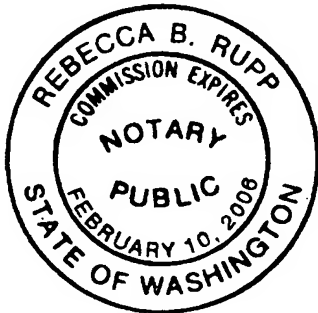
PATENT

File No. E-1845 DIV

NOTARIAL CERTIFICATE

I, Rebecca B. Rupp, a Notary Public for the State of Washington, to hereby certify that the attached is a true and exact copy of the Declaration of Joint Inventors for Patent Application 10/139,408 to Battelle Memorial Institute, executed May 2, 2002.

IN WITNESS WHEREOF, I have signed my name and affixed my official seal this 26 day of March, 2004.



*Rebecca B. Rupp*  
Rebecca B. Rupp, Notary Public  
State of Washington  
Commission Expires February 10, 2006

Express Mailing Label # EU013001883US

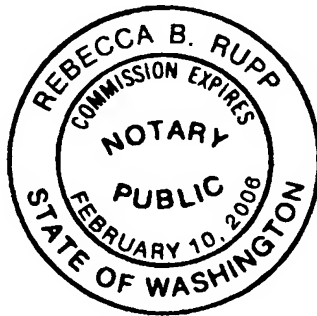
PATENT

File No. E-1845 DIV

NOTARIAL CERTIFICATE

I, Rebecca B. Rupp, a Notary Public for the State of Washington, to hereby certify that the attached is a true and exact copy of the drawings submitted for prior application serial number 10/139,408, filed May 2, 2002.

IN WITNESS WHEREOF, I have signed my name and affixed my official seal this 26 day of March, 2004.



*Rebecca B. Rupp*

Rebecca B. Rupp, Notary Public  
State of Washington  
Commission Expires February 10, 2006

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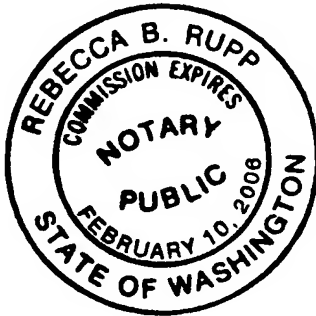
PATENT

File No. E-1845 DIV

NOTARIAL CERTIFICATE

I, Rebecca B. Rupp, a Notary Public for the State of Washington, do hereby certify that the attached is a true and exact copy of the prior application serial number 10/139,408, filed 05-02-2002.

IN WITNESS WHEREOF, I have signed my name and affixed my official seal this 26 day of March, 2004.



Rebecca B. Rupp  
Rebecca B. Rupp, Notary Public  
State of Washington  
Commission Expires February 10, 2006

Express Mailing Label # EU013001883US

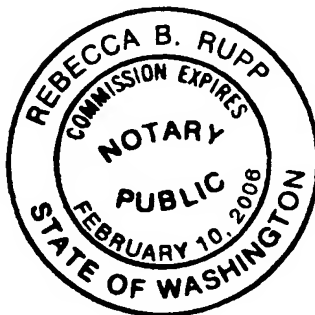
PATENT

File No. E-1845 DIV

NOTARIAL CERTIFICATE

I, Rebecca B. Rupp, a Notary Public for the State of Washington, to hereby certify that the attached is a true and exact copy of the Assignment to Battelle Memorial Institute, executed May 2, 2002.

IN WITNESS WHEREOF, I have signed my name and affixed my official seal this 26 day of March, 2004.



Rebecca B. Rupp  
Rebecca B. Rupp, Notary Public  
State of Washington  
Commission Expires February 10, 2006

COMBINED DECLARATION AND POWER OF ATTORNEY  
FOR PATENT APPLICATION

As a below named inventor, I hereby declare that:

My residence, post office address, and citizenship are as stated below next to my name,

I believe I am an original, first, and joint inventor of the subject matter which is claimed and for which a patent is sought on the invention entitled Mesoporous Carbonates and Method of Making, the specification of which

☒ is attached hereto.

☐ was filed on \_\_\_\_\_ as  
Application Serial No.

☐ and was amended on \_\_\_\_\_  
(if applicable)

☐ with amendments through \_\_\_\_\_  
(if applicable)

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information that is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, Sec. 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, Sec. 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

☒ no such applications have been filed

☐ such applications have been filed as follows

Prior Foreign Application(s)

		NONE	Priority Claimed	
			[ ]	[ ]
<u>(Number)</u>	<u>(Country)</u>	<u>(Day/Month/Year Filed)</u>	Yes	No

I hereby claim the benefit under Title 35, United States Code, Sec. 120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Sec. 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Sec. 1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

	NONE	
<u>(Application Serial No.)</u>	<u>(Filing Date)</u>	<u>(Status - patented, pending, abandoned)</u>

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application, to file a corresponding international application, and to transact all business in the Patent and Trademark Office connected therewith:

Douglas E. McKinley, Jr., Registration No. 40,280  
 Stephen R. May, Registration No. 29,255  
 Todd Harrington, Registration No. 50,137

Address all correspondence to:

Douglas E. McKinley, Jr.  
 McKinley Law Office  
 Post Office Box 202  
 Richland, WA 99352

Direct all phone calls to him at (509) 628-0809.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: Glen Fryxell

Inventor's signature \_\_\_\_\_

Date \_\_\_\_\_

Residence: 8901 W. Entiat Ave., Kennewick, WA 99336

Citizenship: United States

Post Office Address: 8901 W. Entiat Ave., Kennewick, WA 99336

-----

Full name of second joint inventor: Jun Liu

Inventor's signature  \_\_\_\_\_

Date 4/25/02

Residence: 9219 Meriwether Avenue NE, Albuquerque, NM 87109

Citizenship: China

Post Office Address: 9219 Meriwether Avenue NE  
Albuquerque, NM 87109

-----

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full name of first joint inventor: Glen Fryxell

Inventor's signature 

Date April 26, 2002

Residence: 8901 W. Entiat Ave., Kennewick, WA 99336

Citizenship: United States

Post Office Address: 8901 W. Entiat Ave., Kennewick, WA 99336

-----  
Full name of second joint inventor: Jun Liu

Inventor's signature \_\_\_\_\_

Date \_\_\_\_\_

Residence: 9219 Meriwether Avenue NE, Albuquerque, NM 87109

Citizenship: China

Post Office Address: 9219 Meriwether Avenue NE  
Albuquerque, NM 87109



Full name of third joint inventor: Thomas S. Zemanian

Inventor's signature 

Date April 24, 2002

Residence: 1501 Hains Avenue, Richland, WA 99352

Citizenship: United States

Post Office Address: 1501 Hains Avenue, Richland, WA 99352

05-17-2002

Form PTO-1595

(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

Tab settings ⇌ ⇌ ⇌



102093173

U.S. DEPARTMENT OF COMMERCE  
U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

## 1. Name of conveying party(ies):

Glen Fryxell

Jun Liu

Thomas S. Zemanian

05/02/02

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

## 3. Nature of conveyance:



Assignment



Merger



Security Agreement



Change of Name



Other

Execution Date: April 26, 2002

## 2. Name and address of receiving party(ies)

Name: Battelle Memorial Institute

Internal Address: MS K1-53

Street Address: P.O. Box 999

City: Richland State: WA Zip: 99352

Additional name(s) & address(es) attached? ☐ Yes ☒ No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: \_\_\_\_\_

A. Patent Application No.(s) \_\_\_\_\_

B. Patent No.(s) \_\_\_\_\_

Additional numbers attached? ☐ Yes ☒ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Douglas E. McKinley, Jr.

Internal Address: \_\_\_\_\_

Street Address: P.O. Box 202

City: Richland State: WA Zip: 99352

## 6. Total number of applications and patents involved: 1

7. Total fee (37 CFR.3.41).....\$ 40.00



Enclosed



Authorized to be charged to deposit account

## 8. Deposit account number:

502149 Law Office of Douglas E. McKinley, Jr.

DO NOT USE THIS SPACE

## 9. Signature.

Douglas E. McKinley, Jr.

Name of Person Signing

Signature

April 23, 2002

Date

Total number of pages including cover sheet, attachments, and documents: 5

05/16/2002 LNUELLER 00000274 502149

10139408

Mail documents to be recorded with required cover sheet information to:

Commissioner of Patents &amp; Trademarks, Box Assignments

Washington, D.C. 20231

01 FC:581

40.00 CH

A S S I G N M E N T

Glen Fryxell  
Jun Liu  
Thomas s. Zemanian

To

Battelle Memorial  
Institute

WHEREAS we, Glen Fryxell, of Kennewick, in the County of Benton, and State of Washington; Jun Liu of Albuquerque, County of Bernalillo, and State of New Mexico; Thomas S. Zemanian of Richland, in the County of Benton, and State of Washington, have made certain inventions in Mesoporous Carbonates and Method of Making for which we are about to make application for Letters Patent of the United States; and

WHEREAS Battelle Memorial Institute, a corporation of Ohio, organized and existing under the laws of the State of Ohio, and having a place of business in the City of Richland, Washington, is desirous of acquiring an interest in the said invention and in any patent or patents to be obtained therefor;


NOW, THEREFORE, To All Whom It May Concern, be it known that, for and in consideration of the sum of One Dollar (\$1.00) each, and other good and valuable considerations, the receipt of which is hereby acknowledged, we have sold, assigned, and transferred, and by these presents do sell, assign and transfer unto the said Battelle Memorial Institute, the entire right, title, and interest in and to the invention shown, described, or claimed therein, and the full and exclusive right and title to the said application, executed by us on the 26 day of April, 2002, preparatory to obtaining Letters Patent of the United States therefor; and in and to any extensions, reissues, divisions, or renewals thereof; and we do hereby authorize and request the Commissioner of Patents or other proper Officer, to issue such Letters Patent, or any of them to the said Battelle Memorial Institute, as the assignee of our entire right, title, and interest in and to the same for the sole use and benefit of the said Battelle Memorial Institute, and its successors or assigns.

And we further covenant and agree that we will, at the request and expense of the said Battelle Memorial Institute, execute such other and further assurances of title as may be necessary or proper to fully convey the interest herein sought to be conveyed; that we will, at the request and expense of the said Battelle Memorial Institute, execute such application papers as may be desired by the said Battelle Memorial Institute, for the filing of any division or renewal of the application herein conveyed, or for reissues or extensions, or any Letters Patent that may be granted upon said application, and will execute such Supplemental Oaths and Preliminary Statements, or other papers as desired by the said Battelle Memorial Institute.

And we further assign unto the said Battelle Memorial Institute, the whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Battelle Memorial Institute to apply for patents therefor in its own name in countries where such procedure is proper and to claim the benefit of the International Convention and agree to execute applications of the said invention in the several countries where it is necessary that the same be executed by the inventors, and to execute assignments of such applications and the patents to be obtained therefor to the said Battelle Memorial Institute, the assignee herein, as well as all other necessary papers.

-----

IN TESTIMONY WHEREOF I have set my hand and affixed my seal at Richland, Washington, this 26 day of April, 2002.

  
\_\_\_\_\_  
Glen Fryxell  
(1st Inventor)

IN TESTIMONY WHEREOF I have set my hand and affixed my seal at \_\_\_\_\_, New Mexico, this \_\_\_\_\_ day of \_\_\_\_\_, 2002.

\_\_\_\_\_  
Jun Liu  
(2nd Inventor)

And we further covenant and agree that we will, at the request and expense of the said Battelle Memorial Institute, execute such other and further assurances of title as may be necessary or proper to fully convey the interest herein sought to be conveyed; that we will, at the request and expense of the said Battelle Memorial Institute, execute such application papers as may be desired by the said Battelle Memorial Institute, for the filing of any division or renewal of the application herein conveyed, or for reissues or extensions, or any Letters Patent that may be granted upon said application, and will execute such Supplemental Oaths and Preliminary Statements, or other papers as desired by the said Battelle Memorial Institute.

And we further assign unto the said Battelle Memorial Institute, the whole right, title, and interest to the invention disclosed in the application throughout all countries foreign to the United States, and do hereby authorize the said Battelle Memorial Institute to apply for patents therefor in its own name in countries where such procedure is proper and to claim the benefit of the International Convention and agree to execute applications of the said invention in the several countries where it is necessary that the same be executed by the inventors, and to execute assignments of such applications and the patents to be obtained therefor to the said Battelle Memorial Institute, the assignee herein, as well as all other necessary papers.

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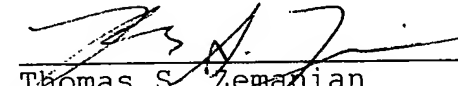
IN TESTIMONY WHEREOF I have set my hand and affixed my seal at Richland, Washington, this \_\_\_\_\_ day of \_\_\_\_\_, 2002.

\_\_\_\_\_  
Glen Fryxell  
(1st Inventor)

IN TESTIMONY WHEREOF I have set my hand and affixed my seal at 4219 Meriwether Ave New Mexico, this 25 day of April, 2002.

  
\_\_\_\_\_  
Jun Liu  
(2nd Inventor)

IN TESTIMONY WHEREOF I have set my hand and affixed my seal  
at Richland, Washington, this 24<sup>th</sup> day of April,  
2002.

  
\_\_\_\_\_  
Thomas S. Zemanian  
(3rd Inventor)